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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKE	T NO.	CONFIRMATION NO.
09/458,190	12/09/1999		BRADLEY CAIN	2204/185		8564
34845	7590	12/23/2004			EXAM	INER
STEUBING 125 NAGO	ICGUINESS & M.	VO, LILIAN				
	ACTON, MA 01720			ART UNIT		PAPER NUMBER
				2127		

DATE MAILED: 12/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati n No.	Applicant(s)					
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Office Action Summary	09/458,190 Examin r	CAIN, BRADLEY Art Unit					
•		2127					
Th MAILING DATE of this communication	Lilian Vo						
Period for Reply		•					
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, and It NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the nearned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a rep. n. a reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MONT tatute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 2	20 September 2004.	•					
2a)⊠ This action is FINAL . 2b)□							
•							
Disposition of Claims							
4)	ndrawn from consideration. ejected.						
Application Papers							
9) The specification is objected to by the Exam							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
Replacement drawing sheet(s) including the control of the control							
Priority under 35 U.S.C. § 119		•					
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	ments have been received. ments have been received in Ap prionty documents have been r ureau (PCT Rule 17.2(a)).	oplication No received in this National Stage					
Attachment(s)							
1) Notice of References Cited (PTO-892)		4) Interview Summary (PTO-413)					
Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date	B/08) 5) Notice of Inf	Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:					

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DETAILED ACTION

1. Claims 1 - 6, 8 - 11 and 13 - 15 are pending. Claims 7 and 12 have been cancelled.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 3, 5, 6, 8, 10, 11, 13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saleh et al. (US Pat. Application Publication 2003/0058804 A1, hereinafter Saleh) in view of Welland et al. (US 5,247,677, hereinafter Welland).
- 4. Regarding claim 1, Saleh discloses a method for expediting a selected operation in a computer system, the method comprising:

associating a plurality of routing operations with an operating system task, the plurality of routing operations including the selected operation (abstract: establishing path between nodes, page 8, paragraph 96 – 97, and figs. 5 - 6);

executing the operating system task at a low priority level prior to performing the selected operation (page 4, paragraph 55: some tasks are processed at a lower priority than the other); and

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performing the selected operation in response to the detection of a trigger condition comprising a link state advertising message indicating that the selected operation is to be performed (page 8, paragraphs 96 – 100, page 20, paragraph 237 and figs. 5 and 6. Each node is required to send a periodic Hello message that may contain several LSAs, paragraph 97. Certain actions are performed by the node to handle the receiving LSAs message, paragraph 99 – 98 and fig. 6).

Saleh did not clearly disclose the step of raising the operating system task to a high priority level to perform the selected operation. Instead, Saleh discloses (paragraph 55) that some tasks are being processed at a lower priority level than the other. Saleh also discloses (paragraphs 99 – 100, and fig. 6) that when a node receives LSAs message, it is first analyzed to determine the appropriate actions to be formed. The LSA is then acknowledged by sending back an appropriate response to the node having transmitted the message.

It is obvious for one of an ordinary skill in the art, at the time the invention was made, to recognize that when a Hello message is sent out with the LSAs, certain operations need to be performed as appropriate, thus implies boosting the tasks to a higher priority than normal to carry out the actions.

In addition, Welland discloses that when an event is reported for a task, it would raise the current priority of the task to a higher priority level (col. 4, line 63 – col. 4, line 4). It would also obvious for one of an ordinary skill in the art, at the time the invention was made, to combine Welland's teaching with Saleh to boost a current priority of a task to a higher priority level so that necessary operation can be formed in a timely manner to enhance system performance.

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Regarding claim 2, as modified Saleh discloses the step of raising the operating system task to a high priority level upon detecting the trigger condition (Welland: col. 4, line 63 – col. 4, line 4).

- Regarding claim 3, Saleh discloses a routing task (abstract: establishing path between nodes. Page 8, paragraph 96 97, and figs. 5 6: sending messages to each other), and the link state advertisement protocol message includes link status information (abstract, page 8, paragraphs 97 100).
- Regarding claim 5, Saleh discloses that some activities such as topology distribution are having a lower priority (page 4, paragraph 55) and that the periodic requirement to send LSAs messages at the node trigger certain actions to be performed at the time (page 8, paragraphs 96 100).

It is obvious for one of an ordinary skill in the art, at the time the invention was made, to recognize that Saleh teaches the limitation as claimed, in which the periodic requirement of sending LSAs message, when happen, boost the priority of the task to perform certain actions and after the performance which relate to LSAs message have been completed, go back to the normal or previous level.

8. Claims 6, 8, 10, 11, 13 and 15 are rejected on the same ground as stated in claims 1-3 and 5 above.

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9. Claims 4, 9 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saleh

et al. (US Pat. Application Publication 2003/0058804 A1, hereinafter Saleh) in view of Welland

et al. (US 5,247,677, hereinafter Welland) as applied to claims 1, 6 and 11 above, and further in

view of Feldman et al. (US 6,148,000, hereinafter Feldman).

10. Regarding claim 4, Saleh and Welland did not disclose the additional limitation as

claimed. Nevertheless, Feldman discloses the use of Dijkstra shortest path algorithm calculation

that utilizes the unique router "labels" received in the link state advertisement protocol message

(col. 13, lines 40 – col. 14, line 26).

It would have been obvious for one of ordinary skill in the art, at the time the invention

was made to include Feldman's teaching to Saleh and Welland combined to utilize Dijkstra

algorithm so that the system have the capability to determine the shortest route in the

communication network.

11. Claims 9 and 14 are rejected on the same ground as stated in claim 4 above.

Response to Arguments

12. Applicant's arguments filed on 9/20/04 have been fully considered but they are not

persuasive for the reasons set forth above and below.

13. Regarding applicant's remark on page 3, last paragraph in which applicant believes the

examiner's conclusion is inconsistent with the teaching of Saleh, the examiner disagrees.

Application please note "topology distribution ... runs ... at a much lower priority..." (page 4, paragraph 55) does not mean the tasks priorities are fix, thus capable of changing.

Moreover, even assuming arguendo that applicant's position is correct, applicant's arguments against the references individually cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See In re Keller, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); In re Merck & Co., 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Applicant's arguments (page 4, 4th paragraph and page 5, 1st paragraph) fail to comply 14. with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

With respect to applicant's assumption that Welland's teaching with tasks has fixed priorities, the examiner disagrees. The examiner refers applicant to col. 4, line 63 - col. 5, line 4, which clearly discloses that when an event is reported for a task, it would raise the current priority of the task to a higher priority level.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's 15. disclosure: Lackman et al. disclosed a data processing system for dynamically altering a transmission priority level associated with multiple real time data packets during transmission of real time and non real time packets over a network.

16. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lilian Vo whose telephone number is 571-272-3774. The examiner can normally be reached on Monday - Thursday, 7:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Lilian Vo Examiner Art Unit 2127

lv December 17, 2004

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100